LAP
MOTOROLA
BLE87 MHz
LINE EXTENDER

Latin American Power. CABA, Argentina.
Tel.: +54 (11)3532-4186 Cel.:+54 9(11)5584 1891
info@latinamericanpower.com
www.latinamericanpower.com

LAP MOTOROLA BLE87 MHz
LINE EXTENDER

The BLE87 two-way line extender offers 870 MHz bandwidth capability, high gain, high output level, ergonomics, and superior distortion performance.

Motorola's STARLINE® series line extender, model BLE87*/*, leads the industry in features and performance and is designed to meet the needs of today's expanding broadband communication networks. This two-way capable single output amplifier offers high gain, high output levels, ergonomics, superior distortion performance, four diplex filter options, 16 dB return loss, and Bode equalization. The BLE87*/* also allows optional advanced features such as ingress control switching and status monitoring.

ENHANCED GALLIUM ARSENIDE

Enhanced Gallium Arsenide (E-GaAs) hybrids are standard in the STARLINE BLE87. This second generation technology provides superior distortion performance in CTB and CSO over the standard GaAs technology. Compared to silicon and competing GaAs technology, E-GaAs distortion performance remains linear at significantly higher output levels. This higher output level allows the customer to maximize system performance and reduce system costs. We encourage our customers to contact their Motorola Account Representative to determine the optimal levels for their systems.

HIGH GAIN

The BLE87 also offers high gain. This allows the operator to hold existing amplifier locations during system upgrades thereby reducing system costs.

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BENEFITS INCLUDE:

- 870 MHz Enhanced Gallium Arsenide (E-GaAs) power doubling technology
- High gain
- High output level
- Four diplex filter options
- Ease-of-use ergonomics
- 16 dB return loss
- 60/90 V powering
- Meets Telcordia GR-1098-Core voltage surge requirements using surge waveforms as described in IEEE C62.41
- FCC, CENELEC and CCC approved
- Bode equalization (thermal or auto controlled)
- 15 ampere AC capability
- Optional return path ingress control and status monitor
- Directional coupler –20 dB test points

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BACKWARD COMPATIBILITY

The reversible BLE87 electronics package can be made backward compatible with the STARLINE JLX and 10-Amp BLE housing by installing the BLE-15A Kit. This kit contains 50 mil gold plated platform assemblies. This makes it possible for the amplifier to carry 15 Amperes continuous through the input or output ports.

If an "electronics only" package is ordered, it will include the deeper housing cover to accommodate ergonomic accessories. Note: this is not the deeper housing cover associated with the status monitor. When ordering the status monitor option, a deep housing cover is also required.

FORWARD PATH

The operational gain of the BLE87 is 28 dB or 32 dB depending on model, with 16 dB return loss. Output level control is achieved through the use of an interstage Bode equalizer, which compensates for coaxial cable attenuation changes due to temperature. Equalization may be controlled manually, with a thermal drive unit (model TDU) or with a single pilot closed loop automatic drive unit (model ADU-* or QADU). Both the TDU and the ADU boards are common to the STARLINE family of amplifiers (with the exception of the SLE). ADUs utilize Surface Acoustic Wave (SAW) filters for determining pilot frequency. This improves amplifier stability over temperature.

To further ensure system flexibility, installation ease and maintenance, the amplifier is engineered for compatibility with standard accessories, such as attenuators, equalizers, ADUs or TDUs, return amplifiers, automotive fuses and FTECBTA crowbar circuits.

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The BLE87 uses modular diplex filters which can be changed for a different frequency split as required. The amplifier can be configured with S-split filters for a 5-40 MHz return and a 52-870 MHz forward band. K-splits (5-42 MHz/54-870 MHz), J-splits (5-55 MHz/70-870 MHz), and A-splits (5-65 MHz/85-870 MHz) are also available. These same filters can be used for all current US-style Motorola RF distribution amplifiers (models BLE, MB/MBE, BT).

RETURN PATH

Return amplifier kits can be ordered with either high gain or low gain hybrids providing 24 dB and 19 dB minimum station gain, respectively. Return path equalizers from 0 to 12 dB can be customer selected. Optional features include thermal compensation and ingress control switching. Thermal compensation comes in the form of a plug-in JXP-TH*C, which stabilizes gain and match over temperature extremes.

Also available is Ingress Control Switching (ICS) in 3 states. This pin diode attenuator circuit can lower levels by 6 dB or by 38 dB with a controlled slew rate for minimum bit errors. The LIFELINE® Broadband Line Extender transponder, model LL-BLE-HMS-*/*, and accompanying deeper housing lid are required to operate the Ingress Control Switch from a remote location.

MODEL AVAILABILITY

To reduce customer costs and to accommodate customer specific needs, the STARLINE BLE87 can be ordered in a variety of different models. Please refer to the BLE87 ordering information below for options.

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BLE 87S/H* SPECIFICATIONS

BLE 87S/H*- ENHANDED GALLIUM ARSENIDE – MHz BROADBAND LINE EXTENDER				
PARAMETER	**UNIT**	**NOTE**	**FORDWARD**	**RETURN RA-KIT/L**
PASSBAND	MHz	1	52-870	5-40
FLATNESS	dB	2	±0.70	±0.50
MINIMUM FULL GAIN	dB	3	36	NA
OPERATIONAL GAIN	dB	4	32	19
MANUAL BODE SLOPE CONTROL RANGE	dB	5	±4.0	NA
INSTARSTAGE EQUALIZER SLOPE	dB	6	8±1	NA
NOISE FIGURE 40 / 52 / 870 MHz	dB	7	NA / 9 / 9	6 / NA / NA
REFERENCE FREQUENCY	MHz	8	870/ 550/52	40
OUTPUT LEVEL	DBmV		43/44/37	41 Flat
CHANNEL LOADING COMPRESSED DATA	NTSC		79	4
LOADING	MHz	22	320	NA
DISTORTION CTB	dBc	9, 21, 23	74	NA
XM	dBc	10, 21	63	74
CSO	dBc	9, 11, 21	74	NA
CCN (-6)	dBc	12	58 (50dBmV at 550MHz)	NA
STB	dBc	9	NA	82
SSO	dBc	9	NA	77
TEST POINT (ALL)	dB	13	20 ± 0.7	20±0.5
RETURN LOSS	dB	14	16	
HUM MODULATION	dBc	15, 20	65	60
DC VOLTAGE	VDC	16	+ 24.0 ± 0.25	
CURRENT DC	mA	17	800	925
DC RIPPLE	mV		15 P-P	
POWER CONSUMPTION	W		22.6	26.6
AC INPUT VOLTAGE RANGE	VAC		38 – 90	
AC CURRENT DRAW				
@90 VAC	A		0.48	0.56
@75 VAC	A		0.50	0.59
@60 VAC	A	18	0.56	0.65
@53 VAC	A		0.60	0.70
@45 VAC	A		0.67	0.78
@38 VAC	A		0.75	0.88
AC BYPASS CURRENT	A	18	15	
GROUP DELAY				
55.25 to 58.83MHz	nSec		28	NA
5.0 to 6.5MHz	nSec	19	NA	45
10.0 to 11.5MHz	nSec		NA	10
33.5 to 35.0MHz	nSec		NA	12
38.5 to 40.0MHz	nSec		NA	35
HOUSING DIMENSIONS			10.6" L x 8.0" W x 4.7" D 26.9cm x 20.3cm x 11.9 cm	
WEIGHT			7.2 Pounds	3.2 kg
AMBIENT OPERATING TEMPERATURE			-40° to +140° F	-40° to +60° C

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BLE 87S/G* SPECIFICATIONS

BLE 87S/G*- ENHANDED GALLIUM ARSENIDE – MHz BROADBAND LINE EXTENDER				
PARAMETER	**UNIT**	**NOTE**	**FORDWARD**	**RETURN RA-KIT/L**
PASSBAND	MHz	1	52-870	5-40
FLATNESS	dB	2	±0.70	±0.50
MINIMUM FULL GAIN	dB	3	32	NA
OPERATIONAL GAIN	dB	4	28	19
MANUAL BODE SLOPE CONTROL RANGE	dB	5	±4.0	NA
INSTARSTAGE EQUALIZER SLOPE	dB	6	8±1	NA
NOISE FIGURE 40 / 52 / 870 MHz	dB	7	NA / 9 / 9	6 / NA / NA
REFERENCE FREQUENCY	MHz	8	870/ 550/52	40
OUTPUT LEVEL	DBmV		43/44/37	41 Flat
CHANNEL LOADING COMPRESSED DATA	NTSC		79	4
LOADING	MHz	22	200	NA
DISTORTION CTB	dBc	9, 21, 23	74	NA
XM	dBc	10, 21	63	74
CSO	dBc	9, 11, 21	74	NA
CCN (-6)	dBc	12	58 (50dBmV at 550MHz)	NA
STB	dBc	9	NA	82
SSO	dBc	9	NA	77
TEST POINT (ALL)	dB	13	20 ± 0.7	20±0.5
RETURN LOSS	dB	14	16	
HUM MODULATION	dBc	15, 20	65	60
DC VOLTAGE	VDC	16	+ 24.0 ± 0.25	
CURRENT DC	mA	17	800	925
DC RIPPLE	mV		15 P-P	
POWER CONSUMPTION	W		22.6	26.6
AC INPUT VOLTAGE RANGE	VAC		38 – 90	
AC CURRENT DRAW				
@90 VAC	A		0.48	0.56
@75 VAC	A		0.50	0.59
@60 VAC	A	18	0.56	0.65
@53 VAC	A		0.60	0.70
@45 VAC	A		0.67	0.78
@38 VAC	A		0.75	0.88
AC BYPASS CURRENT	A	18	15	
GROUP DELAY				
55.25 to 58.83MHz	nSec		28	NA
5.0 to 6.5MHz	nSec	19	NA	45
10.0 to 11.5MHz	nSec		NA	10
33.5 to 35.0MHz	nSec		NA	12
38.5 to 40.0MHz	nSec		NA	35
HOUSING DIMENSIONS			10.6" L x 8.0" W x 4.7" D 26.9cm x 20.3cm x 11.9 cm	
WEIGHT			7.2 Pounds	3.2 kg
AMBIENT OPERATING TEMPERATURE			-40° to +140° F	-40° to +60° C

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SPECIFICATION NOTES

1. Operating passband of station. Diplex filters are plugged into the electronic chassis.
2. Referenced to the average gain across the stated passband.
3. Minimum full gain at 870 MHz includes loss of equalizer but Bode slope reserves have not been set. Return gain includes loss of SRE-*-4 return equalizer.
4. Operational gain includes loss of slope reserves as well as equalizer.
5. Amount of Bode slope control range from midpoint (typical setting is -4 dB at 870 MHz @ 20°C). This control should not be used for gain reduction.
6. Amount of slope created and cable equivalence of fixed interstage equalizer. Interstage equalizer is a plug-in.
7. Noise Figure performance is specified typical. Noise Figure is specified at the cable entry facility of the housing and includes the loss of 1 dB for the pre-stage equalizer. The return Noise Figure includes the station loss preceding the RF hybrid.
8. Frequencies that relate the picture carriers or passband edges to the specified output levels and tilts.
9. Measured with CW carriers and spectrum analyzer over specified temperature range. References the worst-case channel. Specifications are compliant with the test methods as stated in NCTA RECOMMENDED PRACTICES FOR MEASUREMENTS ON CABLE TELEVISION SYSTEMS.
10. Measured with wave analyzer and synchronous, 100% depth modulated channels. References the worst-case channels over specified temperature range. Specifications are compliant with the test methods as stated in NCTA RECOMMENDED PRACTICES FOR MEASUREMENTS ON CABLE TELEVISION SYSTEMS.
11. Composite Second Order distortion refers only to those beat clusters that fall +0.75 MHz and +1.25 MHz above the subject picture carrier. CSO beat clusters that have a -0.75 MHz and -1.25 MHz relationship to the subject picture carrier are not included in this specification.

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12. CCN (Composite, Carrier-to-Noise Ratio) is a 10 log addition of both the Carrier-to-Noise Ratio (CNR) and Carrier-to-Intermodulation Noise Ratio (CIN).
13. Test points should be used with GFAL adaptor.
14. Match measurement at the station input and output, cable-entry facilities, at the specified passbands for operational gain.
15. Measured with the stated AC Bypass Current.
16. Measured at the power connector.
17. Current draw at +24.0 VDC.
18. AC current is stated in RMS continuous.
19. Group Delay is specified for standard NTSC video, where delay is the delta from picture carrier to 3.58 MHz color subcarrier. Reverse delay is in a 1.5 MHz bandwidth.
20. Hum Modulation performance is stated typical. Return band specified from 15 MHz. Hum Modulation (5 MHz to 15 MHz) is –55 dBc.
21. Distortion numbers are worst case over temperature in a cascade.
22. The compressed data loading is QAM carriers and are –6 dB relative to the analog CW carriers.
23. CTB (Composite Triple Beat). At the specified channel loading, Enhanced Gallium Arsenide performance varies on a two point three-for-one (2.3:1) basis with amplifier output level.

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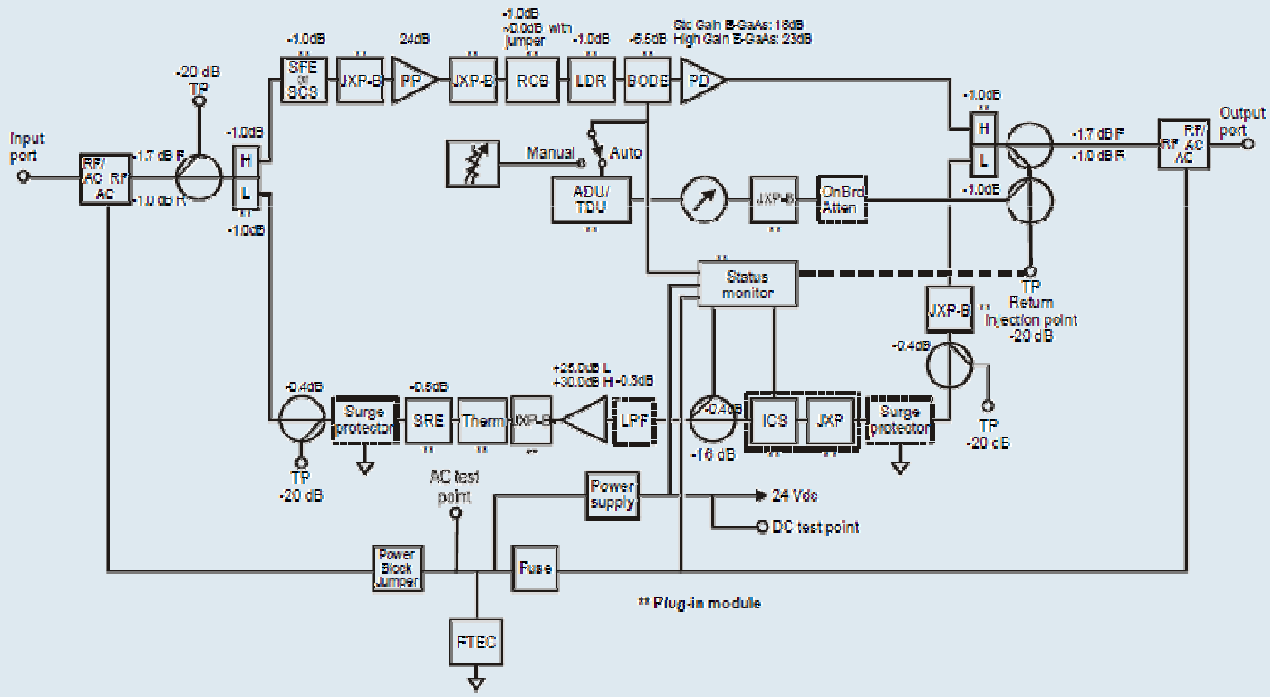
BLE87 BOCK DIAGRAM



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BLE87 ORDERING INFORMATION

MODEL	DESCRIPTION	MOTOROLA PART NUMBER
STANDARD BLE MODELS		
S-SPLIT		
BLE87S/HXX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-213-00
BLE87S/HAX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, ADU 499.25 MHz gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC,full station	478000-212-00
BLE87S/HTX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, TDU gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-211-00
BLE87S/HXX-HXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, high gain return, 20A fuses, FTEC, full station	478000-274-00
BLE87S/GXX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-053-00
BLE87S/GAX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, ADU 499.25 MHz gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-052-00
BLE87S/GTX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, TDU gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-051-00
BLE87S/HXX-LXX-XXX-XX-XXX-XXX-E	5-40 / 52-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, standard surge arrestor, full station	478000-256-00
K-SPLIT		
BLE87K/HXX-HXX-XXX-XC-XXX-XXX-E	5-42 / 54-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, high gain return, 20A fuses, FTEC, full station	478000-305-00
BLE87K/HXX-HXX-XXX-XX-XXX-XXX-E	5-42 / 54-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, high gain return, 20A fuses, standard surge arrestor, full station	478000-234-00
BLE87K/HAX-HXX-XXX-XX-XXX-XXX-E	5-42 / 54-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, ADU 499.25 MHz gain control, 8 dB internal slope, high gain return, 20A fuses, standard surge arrestor, full station	478000-263-00
BLE87K/HTX-HXX-XXX-XX-XXX-XXX-E	5-42 / 54-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, TDU gain control, 8 dB internal slope, high gain return, 20A fuses, standard surge arrestor, full station	478000-301-00
BLE87K/GXX-HXX-XXX-XC-XXX-XXX-E	5-42 / 54-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, manual gain control, 8 dB internal slope, high gain return, 20A fuses, FTEC, full station	478000-306-00
BLE87K/GXX-LXX-XXX-XC-XXX-XXX-E	5-42 / 54-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-080-00
A-SPLIT		
BLE87A/HXH-LXX-XXX-XX-XXX-XXX-E	5-65 / 85-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 12 dB internal slope, low gain return, 20A fuses, standard surge arrestor, full station	478000-176-00
BLE87A/HXX-HXX-XXX-XX-XXX-XXX-E	5-65 / 85-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, high gain return, 20A fuses, standard surge arrestor, full station	478000-205-00
BLE87A/GXX-LXX-XXX-XX-XXX-XXX-E	5-65 / 85-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, standard surge arrestor, full station	478000-149-00
J-SPLIT		
BLE87J/HTX-LXX-XXX-XC-XXX-XXX-E	5-55 / 70-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, TDU gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-321-00

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BLE87 ORDERING INFORMATION

MODEL	DESCRIPTION	MOTOROLA PART NUMBER	QTY PER BLE
NON-STANDARD BLE MODELS			
BLE87S/GXX-LXX-XXX-XX-DXX-XXX-E	5-40 / 52-870 MHz split, one-output, 28 dB standard gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, standard surge arrestor, full station w/ deep lid for status monitor	478000-079-00	
BLE87S/HXX-LXX-XXX-XX-NXX-XXX-E	5-40 / 52-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, standard surge arrestor, 15 A electronics module only (no housing)	478000-308-00	
BLE75S/HXX-LXX-XXX-XC-XXX-XXX-E	5-40 / 52-750 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, low gain return, 20A fuses, FTEC, full station	478000-291-00	
BLE87K/HXX-HXX-XXX-XX-NXX-XXX-E	5-42 / 54-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, high gain return, 20A fuses, standard surge arrestor, 15 A electronics module only (no housing)	478000-318-00	
BLE87J/HXX-XXX-XXX-XX-XXX-XXX-E	5-55 / 70-870 MHz split, one-output, 32 dB high gain forward, E-GaAs, manual gain control, 8 dB internal slope, no return, 20A fuses, standard surge arrestor, full station	478000-284-00	
ACCESSORIES			
SFE-0 **or SFE-1** **or SFE-87-*** **or SFE-75-*** **or SCS-***	Starline Forward Equalizer, 5 – 1 GHz, 0 dB Starline Forward Equalizer, 5 – 1 GHz, 1 dB Starline Forward 870 MHz equalizer (values 0 to 22 dB in 1 dB steps) Starline Forward 750 MHz equalizer (values 0 to 22 dB in 1 dB steps) Starline Cable Simulators	479309-001-00 479309-002-00 477725-* 477822-* 477888-*	1
SRE-*-*	Starline Return Equalizer, 5-40 MHz (S-split), 5-42 (K-split), 5-55 (J-split), 5-65 (A-split), values 0-12 dB in 1 dB steps for S-split (2 dB steps for all other frequency splits)	478176-*	1
JXP-*B	Plug-in attenuator/pad (values 0 to 26 dB, in 1 dB steps)	474011-*	6

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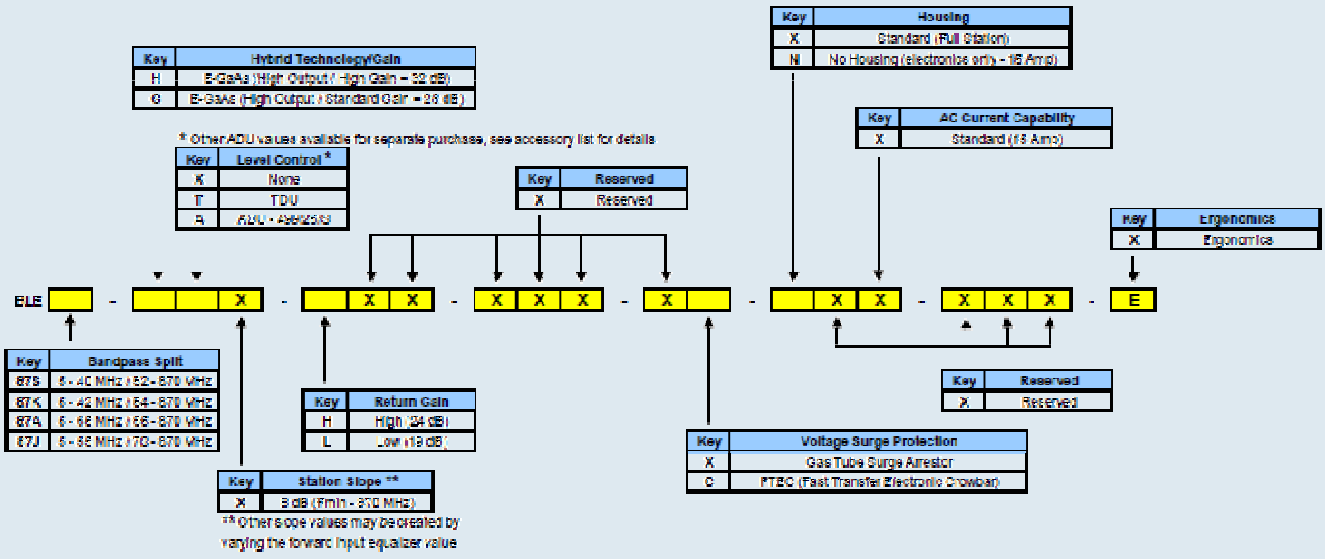
MOTOROLA Standard Broadband Line Extender Model Guide/Description


Key | Housing
X | Standard (Full Station)
N | No Housing (electronics only - 15 Amp)
Key | Hybrid Technology/Gain
H | E-GaAs (High Output / High Gain = 32 dB)
G | E-GaAs (High Output / Standard Gain = 28 dB)
Key | AC Current Capability
X | Standard (15 Amp)
* Other ADU values available for separate purchase, see accessory list for details
Key | Level Control *
K | None
T | TDU
Key | Reserved
X | Reserved
Key | Ergonomics
X | Ergonomics
ELE
Key | Bandpass Split
87S | 5 - 42 MHz / 52 - 870 MHz
87K | 5 - 42 MHz / 54 - 870 MHz
87A | 5 - 66 MHz / 66 - 870 MHz
87J | 5 - 85 MHz / 70 - 870 MHz
Key | Return Gain
H | High (34 dB)
L | Low (19 dB)
Key | Station Slope **
X | 8 dB (Fmin - 870 MHz)
** Other slope values may be created by varying the forward input equalizer value
Key | Voltage Surge Protection
X | Gas Tube Surge Arrestor
C | FTEC (Fast Transfer Electronic Crowbar)
Key | Reserved
X | Reserved

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OTHER ACCESSORIES FOR BLE87

MODEL	P/N	DESCRIPTION
ADU-*	928129-*	Automatic drive unit
ADU-499.25/S	928129-017	Automatic drive unit - pilot at 499.25 MHz (uses SAW filter)
ADU-439.25/S	928129-018	Automatic drive unit - pilot at 439.25 MHz (uses SAW filter)
ADU-403.25/S	928129-019	Automatic drive unit - pilot at 403.25 MHz (uses SAW filter)
ADU-445.25/S	928129-020	Automatic drive unit - pilot at 445.25 MHz (uses SAW filter)
ADU-549.00/S	928129-010	Automatic drive unit - pilot at 549.00 MHz (uses SAW filter)
ADU-423.25	928129-023	Automatic drive unit - pilot at 423.25 MHz
ADU-498.00	928129-009	Automatic drive unit - pilot at 498.00 MHz
QADU-609.00/S	928129-026	QAM Automatic drive unit - QAM pilot at 609 MHz (uses SAW filter)
BLE 15 Amp Kit	951941-006	For line extender upgrades to 15A
BLE-HSG/15	484104-001	BLE housing
BLE-LID/SM	928197-001	BLE deep lid for status monitor
BLE-CVR/E	513932-001	BLE ergonomic lid
BLE-RCB87	484145-001	Response correction board for ergonomic BL
F/JXP-20	927714-001	Test probe
FTEC/BTA	928103-000	Fast transfer electronic crowbar surge protector (230V)
Fuses	928303-tab	Automotive style fuses
Shunts	928303-000	35A automotive style fuses
GFAL	927709-000	Test probe
ICS-II	454056-002	Ingress control switch for amplifiers
JXP-75T	927265-075	75 ohm terminator (short profile)
JXP-RC	927703-002	Forward path (full band) correction board
JXP-RPC	927703-003	Return path correction board (mid-band)
JXP-TH2C	479310-007	2 dB plug-in thermal pad used in return path (two-tier ergonomic)
JXP-TH3C	479310-008	3 dB plug-in thermal pad used in return path (two-tier ergonomic)
RA-KIT/H	927810-007	Return path kit (high gain)
RA-KIT/L	927810-006	Return path kit (low gain)
TDU	928119-000	Thermal drive unit
SHP 815	447983-001	Return high pass filter (15 - 65 MHz)
SHP 815-II	447983-003	Return high pass filter (15 - 65 MHz) - smaller design
SHP 825	447983-002	Return high pass filter (25 - 65 MHz) - smaller design
SZW 852	516299-001	Diplex filter, 40/52 MHz S-split
SZW 854	478005-001	Diplex filter, 42/54 MHz K-split
SZW 885	440168-001	Diplex filter, 65/85 MHz A-split
SZW 870	516301-001	Diplex filter, 55/70 MHz J-split
SZW 847	447280-001	Diplex filter, 30/47 MHz E-split

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Tel.: +54 (11)3532- 4186 Cel.:+54 9(11)5584 1891

info@latinamericanpower.com

www.latinamericanpower.com